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INTELLECTUAL PROPERTY ATTORNEYS

A circular black ink stamp. The outer ring contains the text "U. S. PATENT & TRADEMARK OFFICE" at the top and "WASHINGTON, D. C." at the bottom. The center of the stamp contains the date "JUN 29 2005" and the file number "JC56".

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**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Werner, et al.

Serial No.: 10/028,439 ) Art Unit  
Filed: December 28, 2001 ) 2828  
For: INTEGRAL VERTICAL CAVITY SURFACE )  
EMITTING LASER AND POWER MONITOR )  
Examiner: Dung T. Nguyen )

TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF  
ATTORNEY, AND CHANGE OF ATTORNEY DOCKET NUMBER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is a Revocation and Substitute Power of Attorney, and a Change of Attorney Docket Number for entry in the above-identified application.

Dated this 29 day of June, 2004.

Respectfully submitted,

R. Buncle

R. BURNS ISRAELSEN  
Attorney for Applicant  
Registration No. 42,685  
Customer No. 022913

RBI:kk  
KKK0000003483V001



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PATENT  
Docket No.: 15436.437.5

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

## The application of

Werner, et al.

Filed: December 28, 2001 )

For: INTEGRAL VERTICAL CAVITY SURFACE )  
EMITTING LASER AND POWER MONITOR )

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

"Express Mail" Mailing Label No.: EV 533104775 US

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 29 day of June, 2004:

- Transmittal Letter (1 pg.)
  - Revocation and Substitute Power of Attorney with Exhibits A & B (10 pgs.)
  - Change of Attorney Docket Number (2 pgs.)
  - Postcard

Respectfully submitted,

  
Kimberly Kendrick, Paralegal to R. Burns Israelsen

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EX-RESS MAIL LABEL NO. EV 533104775 US

PATENT  
Docket No.: 15436.437.5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of )  
                        )  
                        )

Werner, et al. )  
                        )  
                        )

Serial No.: 10/028,439 ) Art Unit  
                        ) 2828

Filed: December 28, 2001 )  
                        )  
                        )

For: INTEGRAL VERTICAL CAVITY SURFACE )  
                        )  
EMITTING LASER AND POWER MONITOR )  
                        )  
                        )

Examiner: Dung T. Nguyen )  
                        )  
                        )

REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, the undersigned, Frank H. Levinson, state that I am Chairman of the Board of Finisar Corporation and that I am authorized to execute this Revocation and Substitute Power of Attorney on behalf of Finisar Corporation.



I further state that Finisar Corporation is the assignee of the entire interest of the above-identified patent or patent application as shown by the assignment(s) recorded in the U.S. Patent and Trademark Office at the Reel and Frame identified in Exhibit A. The assignee, Finisar Corporation, hereby revokes all previous powers of attorney in the above-identified patent or patent application, which is included in the schedule of U.S. Patents and Patent Applications of Exhibit B, and now hereby appoints all attorneys under:

**CUSTOMER NUMBER: 022913**

of WORKMAN NYDEGGER as attorney with full power of substitution and revocation, to prosecution said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith.

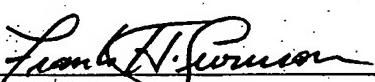
All correspondence and telephonic communication should be directed to:

**ERIC L. MASCHOFF**  
at the address associated with the above-identified customer number.

This Revocation and Substitute Power of Attorney and Statement under 37 C.F.R. 3.73(b) is effective for all of the U.S. Patents and Patent Applications of Exhibit B, and shall be filed at the U.S. Patent & Trademark Office in all of said U.S. Patents and Patent Applications.

Signed this 16 day of March, 2004.

By:

  
Frank H. Levinson  
Finisar Corporation  
1308 Moffett Park Drive  
Sunnyvale, California 94089



**EXHIBIT A**

A chain of title of U.S. Patent Application No. 10/028,439 filed December 28, 2001 is shown in an assignment from the inventor(s) to Honeywell International, Inc. recorded at the U.S. Patent and Trademark Office at Reel 012887, Frame 0181 and an assignment from Honeywell International, Inc. to Finisar Corporation recorded at Reel 014484, Frame 0171.

**Exhibit B****Patents and Patent Applications Subject to Revocation and Substitute Power of Attorney**

USN Filed	Title	Application #	Application Filing Date	Patent #	Grant Date
15436.432.4	Flexible Optic Connector Assembly	08/775330	31-Dec-96		
15436.432.4.4	Flexible Optic Connector Assembly	10/136817	30-Apr-02		
15436.432.6.1	Fiber Optic Header With Integrated Power Monitor	09/481627	12-Jan-00		
15436.432.7.1	Multiple Pack Active Device Receptacle	08/795029	14-Feb-97		
15436.432.7.2	Fiber Optic S-Bend Connector	08/814458	10-Mar-97		
15436.433.3.3	Coupled Cavity Anti-Guided Vertical Cavity Surface Emitting	10/350840	24-Jan-03		
15436.433.4.1	Metamorphic Long Wavelength High Speed Photodiode	10/147136	13-May-02		
15436.433.6.1	Integration of Top-Emitting and Top-Illuminates Optoelectron	10/413186	14-Apr-03		
15436.434.1.1	Integration of Top-Emitting and Top-Illuminates Optoelectron	10/284863	31-Oct-02		
15436.434.1.2	Method and Apparatus For Hermetically Sealing Photonic Device	09/547538	12-Apr-00		
15436.434.2.1	Mechanical Stabilization of Lattice Mismatched Quantum Wells	10/444796	22-May-03		
15436.434.3.1	Hermetic Chip-Scale Package For Photonic Devices	10/634558	4-Aug-03		
15436.434.5	System and Method for Vcsel Polarization Control	09/342801	29-Jun-99		
15436.434.6	Protective Side Wall Passive for Vcsel Chips	09/577034	23-May-00		
15436.434.7	Protective Side Wall Passive for Vcsel Chips	09/652555	31-Aug-00		
15436.434.7.1	Versatile Method and System for Single Mode Vcsels	10/422337	1-May-03		
15436.435.1	Versatile Method and System for Single Mode Vcsels	09/724820	28-Nov-00		
15436.435.1.1	Versatile Method and System for Single Mode Vcsels	10/617290	10-Jul-03		
15436.435.1.2	Versatile Method and System for Single Mode Vcsels	10/617892	11-Jul-03		
15436.435.2	Resonant Reflector For Use With Optoelectric Devices	09/751422	29-Dec-00		
15436.435.3	Spatially Modulated Reflector For an Optoelectric Device	09/751423	29-Dec-00		
15436.435.4	Apparatus and Method Providing a Balancing Load to a Laser Differential Drive Circuit	09/803821	12-Mar-01		
15436.435.5	Method and Apparatus For Producing Vcsels with Dielectric Mirrors and Self-Aligned Gain Guide	09/881167	14-Jun-01		
15436.435.6	Methods and Systems for Wafer Level Burn-in of Electronic De	60/311916	13-Aug-01		

## **Exhibit B**

### **Patents and Patent Applications Subject to Revocation and Substitute Power of Attorney**

15436.435.7	Laser Light Sources Having Integrated Detector and Intensity Control and Methods of Producing Same	09/70073	20-Oct-01
15436.436.1	Method and System for Releasing a Pluggable Module	10/006103	6-Dec-01
15436.436.2	Vertical Cavity Surface Emitting Laser Including Indium Antimony and Nitrogen in the Active Region	10/026016	20-Dec-01
15436.436.3	Vertical Cavity Surface Emitting Laser Including Indium Antimony and Nitrogen in the Active Region	10/026019	20-Dec-01
15436.436.4	Vertical Cavity Surface Emitting Laser Including Indium Antimony and Nitrogen in the Active Region	10/026055	20-Dec-01
15436.436.5	Vertical Cavity Surface Emitting Laser Including Indium Antimony and Nitrogen in the Active Region	10/026020	27-Dec-01
15436.436.6	Indium Free Vertical Cavity Surface Emitting Laser	10/026044	27-Dec-01
15436.436.7	Submount For Vertical Cavity Surface Emitting Laser and Detectors	10/026288	28-Dec-01
15436.436.8	Current Confinement, Capacitance Reduction and Isolation of VCSELs Using Deep Elemental Traps	10/028303	28-Dec-01
15436.437.1	Asymmetric Distribute Bragg Reflector for Vertical Cavity Surface Emitting Lasers	10/028435	28-Dec-02
15436.437.2	Gain Guide Implant in Oxide Vertical Cavity Surface Emitting Laser	10/028436	28-Dec-02
15436.437.3	Vertical Cavity Surface Emitting Laser Having a Gain Guide Aperture Interior to an Oxide Confinement Layer	10/028437	28-Dec-01
15436.437.4	Wavelength Division Multiplexed Vertical Cavity Surface Emitting Laser	10/028438	28-Dec-01
15436.437.5	Integral Vertical Cavity Surface Emitting Laser and Power Monitor	10/028439	28-Dec-01
15436.437.6	Tunable Laser Assembly	10/037010	31-Dec-01
15436.437.7	Optoelectric Devices and Methods of Production	10/037013	31-Dec-01
15436.437.7.1	Optoelectric Devices and Methods of Production	10/669220	24-Sep-03
15436.437.8	Long-Wavelength VCSEL Bottom Mirror	10/078422	21-Feb-02
15436.438.1	Carbon Doped GaSSb Suitable for Use in Tunnel Junctions of Long-Wavelength VCSELs	10/078473	21-Feb-02
15436.438.2	GaAs/Al(Ga)As Distributed Bragg Reflector on InP	10/078474	21-Feb-02
15436.438.3	Resonant Reflector for Increased Wavelength and Polarization Control	10/121490	12-Apr-02
15436.438.4	Methods and Systems for Removing an Oxide-Induced Dead Zone in a Semiconductor Device Structure	10/156324	24-May-02
15436.438.5	Wavelength Selective Detector	10/162928	4-Jun-02

**Exhibit B**  
**Patents and Patent Applications Subject to Revocation and Substitute Power of Attorney**

15436.438.6	Optical Transceiver	10/163057	4-Jun-02		
15436.438.7	Method and Apparatus For Monitoring the Power of a Multi-Wavelength Optical Signal	10/163440	4-Jun-02		
15436.438.8	Atomic Hydrogen as a Surfactant in Production of Highly Strained InGaAsN, InGaAsNSb, and/or GaAsNSb Quantum Wells	10/219425	14-Aug-02		
15436.438.9	Single Mode VCSEL	10/232382	3-Sep-02		
15436.439.1	Hybrid Mirror VCSELS	10/233112	3-Sep-02		
15436.439.2	Nitrogen Sources for Molecular Beam Epitaxy	10/233625	4-Sep-02		
15436.439.3	Oxide Confined VCSEL With a Thin Oxide and Enhanced Conduction	10/283381	28-Oct-02		
15436.439.4	Long-Wavelength Vertical Cavity Surface Emitting Lasers	10/283298	30-Oct-02		
15436.439.5	Selectively-Etchable Heterogeneous Composite Distributed Bragg	10/283311	30-Oct-02		
15436.439.6	Method and Apparatus for Monitoring the Power Level of Two	10/283835	30-Oct-02		
15436.439.7	High Speed Optical Transceiver Package Using Heterogeneous	10/292578	11-Nov-02		
15436.439.8	Long Wavelength VCSEL With Tunnel Junction and Implant	10/301380	21-Nov-02		
15436.439.9	Bidirectional Optical Device	10/308308	3-Dec-02		
15436.440.1	Optical Transceiver (CIP of 15436.438.6, 11)	10/316355	11-Dec-02		
15436.440.10	Pluggable Optical Optic System Having a Lens Fiber Stop	10/456123	6-Jun-03		
15436.440.11	INP Base Long Wavelength VCSEL	10/606104	25-Jun-03		
15436.440.12	A Dielectric VCSEL Gain Guide	10/607629	27-Jun-03		
15436.440.13	VCSEL Having Thermal Management	10/607758	27-Jun-03		
15436.440.14	Enhanced Lateral Oxidation	10/607887	27-Jun-03		
15436.440.2	Angled Wafer Rotating Ion Implantation	10/323889	20-Dec-02		
15436.440.3	Material System for Bragg Reflector in Long Wavelength VCSEL	10/323923	20-Dec-02		
15436.440.4	Zero-Clearance Receptacle Design For Single Mode Optical Fib	10/347789	22-Jan-03		
15436.440.5	Wafer Integration of Micro-Optics	10/351710	27-Jan-03		
15436.440.6	System and Methods Using Migration Enhanced Epitaxy For Flat	10/352293	27-Jan-04		
15436.440.7	Connectorized Optical Component Misaligned Detection System	10/430941	7-May-03		
15436.440.8	VCSEL Mode-Transforming Phase Filter With Enhanced Performance	10/436069	13-May-03		

**Exhibit B****Patents and Patent Applications Subject to Revocation and Substitute Power of Attorney**

15436.440.9	Integrated Sleeve Pluggable Package	10/453307	3-Jun-03	
15436.441.1	Compact Package Design for Vertical Cavity Surface Emitting Laser	10/607982	30-Jun-03	
15436.441.10	Tunnel Junction Utilizing GAPSB, ALGAPSB	10/697028	31-Oct-03	
15436.441.11	Modulation Doped Tunnel Junction	10/706906	14-Nov-03	
15436.441.2	High Speed Optical System	10/610256	30-Jun-03	
15436.441.3	A Lens Optical Coupler	10/612660	2-Jul-03	
15436.441.4	Pseudomorphic Layer in Tunnel Junction VCSEL	10/611992	30-Jul-03	
15436.441.5	An Optical Coupling System	10/620489	16-Jul-03	
15436.441.6	Coupler Having Reduction of Reflections to Light Source	10/620512	16-Jul-03	
15436.441.7	Optical Coupling System	10/622042	17-Jan-03	
15436.441.8	Edge Bead Control Method and Apparatus	10/623351	18-Jul-03	
15436.441.9	Long Wavelength VCSEL Device Processing	10/697660	29-Oct-03	
15436.431.1	Optical Connector Configured to Facilitate Active Alignment of a Photoelectric Device With an Optic Fiber	07/916785	17-Jul-92	5231686 27-Jul-93
	Emitting With Structures Located at Positions Which Prevent Certain Disadvantageous Modes and Enhance Generation of Light in Advantageous Modes	07/909270	6-Jul-92	5264715 23-Nov-93
15436.431.2	Inhibited Laser Power Monitor	08/1175016	29-Dec-93	5475701
15436.431.3	Multi-Gigahertz Frequency-Modulated Vertical-Cavity Surface Emitting Laser	08/476965	7-Jun-95	5574738 12-Nov-96
15436.431.4	Light Source Monitor With Compensated Tracking Ratio	08/739471	28-Oct-96	5737348 7-Apr-98
15436.431.5	Self Limiting Intrinsically Eye-Safe Laser Utilizing an Increasing Absorption Layer	08/683277	18-Jul-96	5745515 28-Apr-98
15436.431.6	Current Confinement For a Vertical Cavity Surface Emitting Laser	08/671995	28-Jun-96	5767674 9-Jun-98
15436.431.7	Filamented Multi-Wavelength Vertical Cavity Surface Emitting Laser	08/734403	16-Oct-96	5774487 30-Jun-98
15436.431.8	Semiconductor Device With a Laser and a Photodetector in a Common Container	08/687701	26-Jul-96	5799030 25-Aug-98
	Apparatus For Determining the Effect of Modal Noise on a Communicating System by Flexing an Optical Fiber	08/743367	4-Nov-96	5805318 8-Sep-98
15436.431.9	Lens For a Semi-Conductor Device With a Laser and Photodetector	08/686895	26-Jul-96	5812518 22-Sep-98

**Exhibit B**  
**Patents and Patent Applications Subject to Revocation and Substitute Power of Attorney**

15436.431.12	Apparatus For Determining the Effect of Modal Noise on a Communication System by Affecting an Optical Fiber Discontinuity	08/743369	4-Nov-96	5841915	24-Nov-98
15436.431.13	Fabrication of Vertical Cavity Surface Emitting Laser With Current Confinement	08/843116	28-Apr-97	5893722	13-Apr-99
15436.431.14	Laser With Selectively Changed Current Confining Layer	08/812620	6-Mar-97	5903588	11-May-99
15436.431.15	Laser With an Improved Mode Control	08/674230	28-Jun-96	5840422	17-Aug-99
15436.431.16	Monolithic Vertical Cavity Surface Emitting Laser And Resonant Cavity Photodetector Transceiver	08/736803	25-Oct-96	5978401	2-Nov-99
15436.432.1	Resonant Reflector For Improved Optoelectronic Device Performance and Enhanced Applicability	08/872534	11-Jun-97	6055262	25-Apr-00
15436.432.2	Bandgap Isolated Light Emitter	08/989734	12-Dec-97	6064683	16-May-00
15436.432.3	Vertical Cavity Surface Emitting Laser Having Intensity Control	09/001894	31-Dec-97	6069905	30-May-00
15436.432.4.1	Flexible Optic Connector Assembly	09/134229	14-Aug-98	6069991	30-May-00
15436.432.4.2	Flexible Optic Connector Assembly	09/135412	14-Aug-98	6088498	11-Jul-00
15436.432.4.3	Flexible Optic Connector Assembly	09/268191	15-Mar-99	6404960	11-Jun-02
15436.432.5	Method For Controlling the Operation of a Laser	08/813751	7-Mar-97	6078601	20-Jun-00
15436.432.6	Fiber Optic Header With Integrated Power Monitor	09/1119089	20-Jul-98	6081638	27-Jun-00
15436.432.7	Active Device Receptacle	08/664039	13-Jun-96	6086263	11-Jul-00
15436.432.8	Chip-To-Interface Alignment	09/052643	31-Mar-98	6095697	1-Aug-00
15436.433.1	Flexible Hermetic Sealing	08/995690	22-Dec-97	6194789	27-Feb-01
15436.433.2	Fiber Optic Header For an Edge Emitting Laser	09/1119273	20-Jul-98	6205274	20-Mar-01
15436.433.3	Vcsel Structure Insensitive to Mobile Hydrogen	08/989731	12-Dec-97	6256333	3-Jul-01
15436.433.3.1	Vcsel Structure Insensitive to Mobile Hydrogen	09/819029	30-Nov-00	6459719	1-Oct-02
15436.433.3.2	Vcsel Structure Insensitive to Mobile Hydrogen	09/819024	30-Nov-00	6522680	18-Feb-03
15436.433.4	Coupled Cavity Anti-Guided Vertical Cavity Surface-Emitting Laser	09/387424	31-Aug-99	6411638	25-Jun-02
15436.433.5	Method and System For Versatile Optical Sensor Package	09/607048	30-Jun-00	6465774	15-Oct-02
15436.433.6	Metamorphic Long Wavelength High Speed Photodiode	09/766797	22-Jan-01	6558973	6-May-03
15436.434.1	Integration of Top-Emitting and Top-Illuminates Optoelectron Integrated Circuit Device	09/724249	28-Nov-00	6586776	1-Jul-03
15436.434.2	Method and Apparatus For Hermetically Sealing Photonic Devices	09/224210	30-Dec-98	6588949	8-Jul-03
15436.434.3	Mechanical Stabilization of Lattice Mismatched Quantum Wells	09/217223	21-Dec-98	6603784	5-Aug-03
15436.434.4	Graded Thickness Optical Element and Method of Manufacture Therefor	09/975299	10-Oct-01	6606199	12-Aug-03